

Why Couldn't the Church Steeple Keep a Secret?

Solve each problem below and find your solution in the answer column. Write the letter of the answer in each box containing the number of the problem.

- ① In how many ways can you arrange 6 things?
- ② In how many ways can you arrange 6 things, 3 at a time?
- ③ Maria keeps her 4 stuffed bears lined up on a shelf over her bed. How many arrangements of the bears are possible?
- ④ How many different 2-letter arrangements can be selected from the 5 letters in the word *CANDY*?
- ⑤ Eleven people are competing in a sack race. There is a blue ribbon for first, a red ribbon for second, and a white ribbon for third. How many different first-second-third place finishes are possible?
- ⑥ David has decided he wants to call Jessica, Martha, and Eileen, but he hasn't decided in what order to call them. How many choices does he have?
- ⑦ The teacher plans to assign 8 students to 8 desks for a debate. How many different seating arrangements are possible?
- ⑧ In how many different ways can a president, vice-president, and secretary be elected from a class of 32 students?
- ⑨ If a school offers 9 different subjects, how many different schedules of 5 classes are possible?
- ⑩ Tak-Kee Plastic Company prints a 2-letter code on each of its products. How many different 2-letter codes can be formed using the 26 letters of the alphabet if the two letters must be different?
- ⑪ SureLock Lock Company makes combination locks with 50 numbers printed on the dial. Each lock combination is an arrangement of 3 different numbers. How many locks can the company make without repeating a combination?

8	4	2	10	2	11	11	5	11	7	5	9	1	8	3	11	11	2	6
---	---	---	----	---	----	----	---	----	---	---	---	---	---	---	----	----	---	---